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INSULATIVE CERAMIC COMPACT

ABSTRACT OF THE DISCLOSURE

An insulative ceramic compact is composed of a fired mixture of (A) a  $\text{MgAl}_2\text{O}_4$ ,  $\text{Mg}_3\text{B}_2\text{O}_6$  and/or  $\text{Mg}_2\text{B}_2\text{O}_5$  ceramic powder, and (B) a glass powder including from about 13 to 50% by weight of silicon oxide in terms of  $\text{SiO}_2$ , from 8 to 60% by weight of boron oxide in terms of  $\text{B}_2\text{O}_3$ , about 20% by weight or less of aluminum oxide in terms of  $\text{Al}_2\text{O}_3$ , and from about 10 to 55% by weight of magnesium oxide in terms of  $\text{MgO}$ . The insulative ceramic compact can be obtained by firing at low temperatures of about  $1000^\circ\text{C}$  or less, can be obtained by sintering with Ag or Cu, has a low dielectric constant and a high Q value, and is suitable for use in the high-frequency range.

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